Nathan Savas

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Education

California State University, Long Beach **Exp. Graduation: May 2020**
Bachelor of Science in Computer Science Concentration GPA: 3.67
Relevant Coursework: Object Oriented Programming & Data Structures, Digital Logic & Assembly, Discrete Structures with Computing Applications, Multivariable Calculus, Electromagnetic Foundations

Skills

Programming/Scripting Languages: Java, JavaScript, Python, HTML, CSS
Frameworks/Tools: React, Node, D3, Matplotlib, Git, Pandas, Numpy, Sci-Kit Learn, Jupyter Notebooks, Eclipse

Projects

US Chemical Release Visualizer (In Progress)
Python, JavaScript, HTML, CSS

- Leading a team of 3 in developing a web application to visualize and analyze EPA toxic release data using JavaScript, Python (pandas, Matplotlib, NumPy), and D3.js components
- Designed a map interface with Mapbox GL and geojson data to place interactive markers at Long Beach, CA waste generators
- Building a statistical model using machine learning algorithms to predict the likelihood of waste generators violating regulation

Spot A Bubble
JavaScript, HTML, CSS

- Developed a React application using D3.js and the Spotify API to allow users to visualize their top genres and artists
- Utilized the D3 force module to create a dynamic bubble chart that scales each bubble radius based on user listening data
- Designed a login page with Bootstrap and deployed to the internet with Heroku

Cell Phone Program
Java

- Developed an object oriented Java program as part of an in class project that provides a cell phone interface to make calls, store and edit contacts, create a speed dial list, and display a call log
- Used unit testing for ~900 lines of code to isolate bugs and minimize coupling

Experience

Perfect Score Academy **Cypress, CA**
Computer Science Instructor March 2018 - Present

- Designed and delivered an 8-week computer science for a class of fifteen K-12 students to promote the advancement of computer science education within the community
- Successfully analyzed and debugged code (Python) written by students and provided feedback
- Worked closely with students to create in class projects and tutor concepts such as object oriented programming, file I/O, list comprehension, looping, functions, and basic sorting algorithms

Clubs & Organizations

Association of Computing Machinery **Long Beach, CA**
Project Manager September 2018 - Present
General Member September 2016 - September 2018

- Assisted club members in organizing the annual launch of the Beach Hacks hackathon
- Facilitated redesigning the club website using Bootstrap and JavaScript